

### **ABSTRACT OF THE DISCLOSURE**

Methods for obtaining pluripotent (embryonic stem) cells from parthenogenetic embryos, especially primates, are provided. These cells are useful for producing differentiated cells, tissues and organs, especially human and non-human primate cells, tissues and organs.

1. A method for obtaining pluripotent (embryonic stem) cells from parthenogenetic embryos, especially primates, comprising the steps of: (a) obtaining a parthenogenetic embryo; (b) isolating a cell from the parthenogenetic embryo; (c) culturing the cell in the presence of a growth factor; and (d) isolating a pluripotent (embryonic stem) cell from the culture.